## AMMONIA FOR USE IN MANUFACTURE OF GAN-TYPE COMPOUND SEMICONDUCTOR AND METHOD FOR MANUFACTURING GAN-TYPE COMPOUND SEMICONDUCTOR

## CROSS REFERENCE TO RELATED APPLICATIONS

This is a Continuation Application of U.S. Prow Pated No. 6,719,842

Application No. 09/473,708 filed December 29, 1999,

claiming benefit pursuant to 35 U.S.C. §119(e)(i) of

the filing date of Provisional Application

60/114,376 filed December 30, 1998 pursuant to 35

U.S.C. §111(b).

## FIELD OF THE INVENTION

The present invention relates to ammonia for use in the manufacture of a GaN-type compound semiconductor and a method for producing a GaN-type compound semiconductor using the ammonia.

## BACKGROUND OF THE INVENTION

Fig. 3 shows an example of conventional GaNtype compound semiconductor devices. The GaN-type compound semiconductor device shown here has a constitution such that a buffer layer 2 comprising  $Ga_xAl_{1-x}N$  (wherein  $0 \le x \le 1$ ) which is a GaN-type compound, a Si-doped n-type  $Ga_xAl_{1-x}N$  layer (n-type